(19) JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **07291854 A**

(43) Date of publication of application: 07.11.95

(51) Int. Cl
A61K 9/14
A61K 31/40
A61K 31/445
A61K 47/10
A61K 47/32
A61K 47/38

(21) Application number: 06087012

(22) Date of filing: 26.04.94

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(54) MEDICINAL PREPARATION IMPROVED IN SOLUBILITY

(57) Abstract:

PURPOSE: To obtain a medicinal preparation, comprising a solid dispersion and improved in solubility of a sparingly soluble medicine by adding a hydrophilic polymer and a solubility improving adjuvant to the sparingly soluble medicine, pulverizing the resultant mixture in the presence of a small amount of an aqueous solvent and then removing the aqueous solvent.

CONSTITUTION: This medicinal preparation is obtained by adding a hydrophilic polymer (e.g. hydroxypropyl methyl cellulose) and a solubility improving adjuvant (e.g. polyethylene glycol) to a sparingly soluble medicine, pulverizing the resultant mixture in the presence of an aqueous solvent (e.g. water) in an amount so as not to completely dissolve the sparingly soluble medicine, then removing the aqueous solvent by drying, etc., and providing a solid dispersion. The blending ratios based on 1 pt.wt. sparingly soluble medicine are 0.1-50 pts.wt. hydrophilic polymer, 0.1-10 pts.wt. solubility improving adjuvant and ≤20 pts.wt. aqueous solvent. The medicinal preparation has high safety and can be produced without using a halogenated organic solvent at all and further applied to a wide range of the sparingly soluble medicines.

Deutsches Patent- und Markenamt

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Suchanfrage:

JP0007291854AA

Treffer: 1 (Gesamttreffer: 1)

Trefferliste:

Nr.	Veröffentl.-Nummer	Titel	Anzeige	PDF	Familien-Recherche
1	JP0007291854AA	[ ] MEDICINAL PREPARATION IMPROVED IN SOLUBILITY			

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